

What is claimed:

1. An electrographic development machine utilizing developer material having toner particles with magnetic content, said development machine comprising:
a dielectric film member configured for carrying an electrostatic image
5 thereon;
a toner roller disposed upon a first side of said dielectric film member, said toner roller having a core and an outer shell, said core including a plurality of toner roller magnets, each of said toner roller magnets having a respective north and south pole, said toner roller magnets being disposed such that adjacent pairs thereof have
10 poles of opposite polarity disposed proximate said shell, said toner roller providing said dielectric film member with a supply of developer material; and
means for balancing the magnetic forces acting on the toner particle with magnetic content.
2. The electrographic development machine of claim 1, wherein said means
15 for balancing comprises a magnetic keeper disposed on a second side of said dielectric film member, said second side opposite said first side.
3. The electrographic development machine of claim 2, wherein said magnetic keeper is chosen from a group consisting of a wire, a rod, and a plate and is constructed at least in part of a ferromagnetic material.
- 20 4. The electrographic development machine of claim 1, wherein said means for balancing comprises an electromagnetic structure.
5. The electrographic development machine of claim 4, wherein said
electromagnetic structure comprises a rotating magnet assembly disposed on a second
side of said dielectric film member, said second side opposite said first side, said
25 rotating magnet assembly disposed generally opposite said toner roller, said rotating magnet assembly including a plurality of assembly magnets, each of said plurality of assembly magnets having respective poles, said assembly magnets arranged such that said poles thereof are opposite in polarity to corresponding and opposing said poles of said toner roller magnets.

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6. The electrographic development machine of claim 4, wherein said electromagnetic structure comprises a rotating magnet assembly disposed on a second side of said dielectric film member, said second side opposite said first side, said rotating magnet assembly disposed generally opposite said toner roller, said rotating magnet assembly including a plurality of assembly magnets, each of said plurality of assembly magnets having respective poles, said assembly magnets arranged such that said poles thereof are of the same polarity as said poles of said toner roller magnets.

7. The electrographic development machine of claim 4, wherein said electromagnetic structure comprises a rotating magnet assembly disposed on a second side of said dielectric film member, said second side opposite said first side, said rotating magnet assembly disposed generally opposite said toner roller, said rotating magnet assembly including a plurality of assembly magnets, each of said plurality of assembly magnets having respective poles, said assembly magnets arranged such that said poles thereof are phase shifted with respect to said poles of said toner roller magnets.

8. The electrographic development machine of claim 4, wherein said electromagnetic structure comprises an electromagnet.

9. The electrographic development machine of claim 1, wherein said means for balancing is encased in a material to facilitate cleaning.

10. The electrographic development machine of claim 1, further comprising a controller, said controller electrically connected to said means for balancing to thereby control in a generally real-time manner the magnetic field within the machine.

11. A method of counteracting development magnetic forces acting upon a toner particle having magnetic content within an electrographic development machine, comprising:

creating a balancing magnetic force that interacts with said development magnetic force.

12. The method of claim 11, said balancing force being approximately equal to said development magnetic force.

13. The method of claim 11, comprising disposing a magnetic keeper on a side of the dielectric support member that is opposite the side upon which the electrostatic image is disposed.

14. The method of claim 12, wherein said magnetic keeper is a ferromagnetic material chosen from a group consisting of a wire, a rod, and a plate.

15. The method of claim 11, comprising disposing a rotating magnet assembly on the side of said dielectric film member opposite the side upon which the electrostatic image is disposed.

16. The method of claim 11, comprising disposing an electromagnet on the side of said dielectric film member opposite the side upon which the electrostatic image is disposed.

17. A method of developing an image:

feeding a developer into contact with a dielectric member using a development magnet; and,

altering a magnetic field induced by said development magnet with a field altering structure disposed on a side of said dielectric member opposite said development electromagnet.

18. The method of claim 17, the developer comprising magnetic toner.

19. The method of claim 17, the field altering structure comprising ferromagnetic material chosen from a group consisting of wire, rod, and plate.

20. The method of claim 17, the field altering structure comprising a rotating magnet.

21. The method of claim 17, the field altering structure comprising an electromagnet.